Math
510.5
D277
v.33
1966

CONTENTS

Volume 33, 1966

AGARD, STEPHEN. An extremal problem in quasiconformal mappings... 735

AL-SALAM, NADHLA A. Orthogonal polynomials of hypergeometric type.. 109

ANAND, HARSH, DUMIR, VISHWA CHANDER AND GUPTA, HANSRAJ. A combinatorial distribution problem..... 757

ANDREWS, GEORGE E. q-identities of Auluck, Carlitz and Rogers..... 575

ARMENTROUT, STEVE. Concerning a wild 3-cell described by Bing..... 689

ASKEY, RICHARD AND WAINGER, STEPHEN. Integrability theorems for Fourier series..... 223

BAXTER, W. E. AND HAEUSSLER, E. F. Generating submodules of simple rings with involution..... 595

BERGMAN, STEFAN. Approximation of harmonic functions of three variables by harmonic polynomials..... 379

BERLEKAMP, E. R. Distribution of cyclic matrices in a finite field..... 45

BERNARDI, S. D. Special classes of subordinate functions..... 55

BROWN, DENNISON R. Matrix representations of compact simple semigroups..... 69

CAIN, GEORGE L., JR. Compact and related mappings..... 639

CARLITZ, L. A note on quadrics over a finite field..... 453

CARLITZ, L. A note on the composition of arithmetic functions..... 629

CARLITZ, L. Enumeration of symmetric arrays..... 771

CARLITZ, L. Some congruences involving binomial coefficients..... 721

CARLITZ, L. Some difference equations..... 27

CARLSON, B. C. AND GREIMAN, W. H. The Fourier series of Gegenbauer's function..... 41

CARLSON, DAVID. A note on matrices over extension fields..... 503

CAVENY, JAMES. Bounded Hadamard products of H^p functions..... 389

CESARI, L. The implicit function theorem in functional analysis..... 417

CLARK, W. EDWIN. Baer rings which arise from certain transitive graphs 647

CRABTREE, DOUGLAS E. Applications of M-matrices to non-negative matrices..... 197

DAVIS, PHILIP J. AND DEMAR, RICHARD F. A complex Pompeiu problem 91

DECELL, HENRY, Jr. $\mathfrak{L}^1$-spaces in measure algebras over compact spaces 709

DEMAR, RICHARD F. AND DAVIS, PHILIP J. A complex Pompeiu problem 91

DIXON, R. D. AND SCHOENFELD, LOWELL. The size of the Riemann zeta-function at places symmetric with respect to the point 1/2 291

DRAZIN, M. P. Vanishing coefficients and binomial congruences 715

DUMIR, VISHWA CHANDER, GUPTA, HANSRAJ AND ANAND, HARSH. A combinatorial distribution problem 757

DUNCAN, R. L. A general class of arithmetical functions 507

DUREN, P. L., SHAPIRO, H. S. AND SHIELDS, A. L. Singular measures and domains not of Smirnov type 247

DURSZT, E. Remark on a paper of S. K. Berberian 795

DYE, H. A. AND RUSSO, B. A note on unitary operators in C^*-algebras ... 413

FOLAND, N. E. An embedding theorem for discrete flows on a closed 2-cell 441

GANSER, C. C. Integrability of ultraspherical series 539

GILLMAN, DAVID S. Unknotting 2-manifolds in 3-hyperplanes of E^4 229

GIOIA, A. A. AND VAIDYA, A. M. The number of squarefree divisors of an integer 797

GRÄTZER, G. Equational classes of lattices 613

GREIMAN, W. H. AND CARLSON, B. C. The Fourier series of Gegenbauer's function 41

GROSSWALD, E. L-functions and quadratic fields with unique factorization 169

GUPTA, HANSRAJ, ANAND, HARSH AND DUMIR, VISHWA CHANDER. A combinatorial distribution problem 757

HAEUSSLER, E. F. AND BAXTER, W. E. Generating submodules of simple rings with involution 595

HAHN, KYONG T. The non-Euclidean Pythagorean theorem with respect to the Bergman metric 523

HAIMO, DEBORAH TEPPER. Generalized temperature functions 305

HARRIS, R. T. A direct integral construction 535

HARTMAN, PHILIP. The existence and stability of stationary points 281

HAYASHI, H. S. The number of solutions of certain quintic congruences 747

HEMMINGER, ROBERT L. The lexicographic product of graphs..... 499

HO, D. V., JAYNE, J. W. AND SLEDD, M. B. Recursively generated Sturm-Liouville polynomial systems..... 131

HODGES, JOHN H. An Hermitian matrix equation over a finite field.... 123

HORADAM, E. M. Addendum to Ramanujan's sum for generalised integers 705

HOUGHTON, C. J. Retraction into a dendrite..... 673

JAYNE, J. W., SLEDD, M. B. AND HO, D. V. Recursively generated Sturm-Liouville polynomial systems..... 131

JONES, F. BURTON AND THOMAS, E. S., JR. Connected G_δ-graphs.... 341

KIM, JEHPILL. A note on upper semicontinuous decompositions of the n-sphere..... 683

KINOSHITA, SHIN'ICHI. On Fox's property of a surface in a 3-manifold... 791

KOHLS, C. W. AND REID, J. D. Orders on commutative rings..... 657

KOZLOWSKI, GEORGE AND TONG, HING. Two problems of Hewitt on topological expansions..... 475

LELAND, KENNETH O. A characterization of analyticity..... 551

LOEWNER, CHARLES. Some concepts of parallelism with respect to a given transformation group..... 151

LONDON, DAVID. Inequalities in quadratic forms..... 511

LOUCHARD, GUY. Recurrence times and capacities for finite ergodic chains 13

MCAULEY, LOUIS. Conditions under which light open mappings are homeomorphisms..... 445

MCCORD, MICHAEL C. Singular homology groups and homotopy groups of finite topological spaces..... 465

MCMILLAN, J. E. Curvilinear oscillations of holomorphic functions.... 495

MARDEN, A. AND RODIN, B. Periods of differentials on open Riemann surfaces..... 103

MARDEŠIĆ, SIBE AND SEGAL, JACK. A note on polyhedra embeddable in the plane..... 633

MARTIN, JOSEPH. A countable Hausdorff space with a dispersion point. 165

MATHEWS, H. T. Left and right boundary cluster sets in n-space..... 667

MAXWELL, CHARLES N. Homomorphisms of topological transformation groups into function spaces 567

MEYER, PAUL R. The Baire order problem for compact spaces 33

MITCHELL, JOSEPHINE. Area and moment of inertia theorems for circular domains in C^n 209

OLER, NORMAN. Packings with lacunae 141

PEŁCZYŃSKI, A. Uncomplemented function algebras with separable annihilators 605

PERNAVS, N. A uniqueness theorem for the n-dimensional Helmholtz equation 335

PIRANIAN, GEORGE. Two monotonic, singular, uniformly almost smooth functions 255

RAIMI, RALPH A. Homeomorphisms and invariant measures for $\beta N - N$ 1

RAO, K. NAGESWARA. A congruence equation in $GF[p^n, x]$ and some related arithmetical identities 783

REARICK, DAVID. Correlation of semi-multiplicative functions 623

REARICK, DAVID. Semi-multiplicative functions 49

REED, TERENCE J. Quasiconformal mappings with given boundary values 459

REID, J. D. AND KOHLS, C. W. Orders on commutative rings 657

RIORDAN, JOHN. A functional-difference equation 23

ROCKAFELLAR, R. T. Extension of Fenchel's duality theorem for convex functions 81

RODIN, B. AND MARDEN, A. Periods of differentials on open Riemann surfaces 103

ROSELLE, D. P. Generalized Eulerian functions and a problem in partitions 293

ROVNYAK, VIRGINIA G. Self-reciprocal functions 363

ROY, PRABIR. A countable connected Urysohn space with a dispersion point 331

RUBIN, LEONARD. The product of an unusual decomposition space with a line is E^4 323

RUCKLE, WILLIAM. Infinite matrices which preserve Schauder bases 547

RUMSEY, HOWARD, JR. Sets of visible points 263

RUSSELL, H. G. AND WALSH, J. L. Hyperbolic capacity and interpolating rational functions II 275

RUSSO, B. AND DYE, H. A. A note on unitary operators in C^*-algebras 413

RYAN, FRANK B. A characterization of the set of asymptotic values of a function holomorphic in the unit disc 485

RYAN, FRANK B. The set of asymptotic values of a bounded holomorphic function 477

RYFF, JOHN V. Subordinate H^p functions 347

SCHIFFER, M. A variational method for univalent quasiconformal mappings 395

SCHOENFELD, LOWELL AND DIXON, R. D. The size of the Riemann zeta-function at places symmetric with respect to the point 1/2 291

SEGAL, JACK AND MARDEŠIĆ, SIBE. A note on polyhedra embeddable in the plane 633

SHAMPINE, LAWRENCE F. An inequality of E. Schmidt 145

SHAPIRO, H. S., SHIELDS, A. L. AND DUREN, P. L. Singular measures and domains not of Smirnov type 247

SHIELDS, A. L., DUREN, P. L. AND SHAPIRO, H. S. Singular measures and domains not of Smirnov type 247

SLEDD, M. B., HO, D. V. AND JAYNE, J. W. Recursively generated Sturm-Liouville polynomial systems 131

SMITH, R. A. Sufficient conditions for stability of a solution of difference equations 725

STACKELBERG, OLAF P. On the law of the iterated logarithm for continued fractions 801

STEINER, E. F. Normal families and completely regular spaces 743

TAKATSUKA, TERUO. Regular and meromorphic close-to-convex functions 583

THOMAS, E. S., JR. AND JONES, F. BURTON. Connected G_δ graphs ... 341

TINSLEY, M. F. A combinatorial theorem in number theory 75

TONG, HING AND KOZLOWSKI, GEORGE. Two problems of Hewitt on topological expansions 475

VAIDYA, A. M. AND GIOIA, A. A. The number of squarefree divisors of an integer 797

VÄISÄLÄ, JUSSI. The invariance of domain under acyclic mappings..... 679

WAINGER, STEPHEN AND ASKEY, RICHARD. Integrability theorems for Fourier series..... 223

WALSH, J. L. AND RUSSELL, H. G. Hyperbolic capacity and interpolating rational functions II..... 275

WARNE, R. J. Regular D-classes whose idempotents obey certain conditions..... 187

WIDDER, D. V. A transform related to the Poisson integral for a half-plane 355

ERRATA..... 821